

Background:

CALFED staff have prepared a list of previously funded restoration projects to assist Integration Panel members and the participants in the regional meetings. This list includes projects funded by Category III in 1995 and 1996, by Proposition 204 Category III and Tributary Watershed funds, from the Anadromous Fish Restoration Program (AFRP) in FY 98 and 99, and from the Federal Bay-Delta Act funds in FY 98. Additional AFRP actions from FY 95 through FY 97 are still being added. We recognize that this is not a truly comprehensive list of restoration projects but was designed to give participants an idea of what major efforts are already underway. A copy of the most recent draft of the list is attached in this package. We have also contracted with UC Davis to provide digital mapping of the actual project locations. This effort is still underway and improved maps of the projects are expected to be available when we are considering project proposals later this year.

In addition to this review of previously funded projects, CALFED staff have been preparing information on which ERPP actions are expected to be implemented in the first stage of the long-term program. To ensure that the FY 99 Plan is consistent with the development of the long-term program, the information on the ERPP Stage 1 actions has been provided to the regional meeting participants and to the Integration Panel. A copy of the most recent draft of the Stage 1 Actions is included in this package.

| Stressor/Type of Action Summary | | | |
|---|--|-------------------|-----------------|
| | Applicant/Administrator | Watershed | Funded |
| Education | | | |
| Delta/Suisun Marsh | | | |
| Discover the Flyway | Yolo Basin Foundation | Delta | \$49,000 |
| Water Hyacinth Education Program | Sacramento Regional County Sanitation District | Delta | \$9,600 |
| The Virtual Science Center and Hands-on Learning Programs | The Delta Science Center at Big Break | Delta | \$42,000 |
| | | | <hr/> \$100,600 |
| Landscape | | | |
| Bay-Delta Environmental Restoration Education Program | Water Education Foundation | Landscape | \$40,000 |
| Traveling Film Festival/Heron Booth/Video Archive | Independent Documentary Group | Landscape | \$54,000 |
| Water Challenge 2010 | San Francisco Bay Model Visitor Center, US Army Corps of Engineers | Landscape | \$64,500 |
| Sacramento River, Headwaters to the Ocean, Public Information and Education | Sacramento River Discovery Center | Sacramento River | \$49,640 |
| | | | <hr/> \$208,140 |
| Sacramento Tributaries | | | |
| Adopt-A-Watershed education: Chico | CVPIA: To be determined | Big Chico Creek | \$10,000 |
| The Butte Creek Watershed Educational Workshops and Field Tours Series | Dr. Donald Holtgrieve, CSU Chico | Butte Creek | \$33,000 |
| | | | <hr/> \$43,000 |
| San Joaquin Mainstem | | | |
| Environmental Agriculture Conferences and Field Tours | Committee for Sustainable Agriculture | San Joaquin River | \$28,000 |
| | | | <hr/> \$28,000 |
| San Joaquin Tributaries | | | |

| | Applicant/Administrator | Watershed | Funded |
|---|--------------------------------|-------------------------|-----------------|
| Restoration Education in Lodi, Modesto, and Merced schools | CVPIA: To be determined | San Joaquin Tributaries | \$10,000 |
| San Joaquin Valley 'Salmonids in the Classroom' Program Enhancement | Department of Fish and Game | San Joaquin River | \$3,000 |
| Tuolumne River Natural Resources Program | City of Modesto | Tuolumne River | \$44,700 |
| | | | <hr/> \$57,700 |
| | | | <hr/> \$437,440 |

Entrainment

Delta/Suisun Marsh

| | | | |
|--|--|--------------|-------------------|
| Hastings Tract Fish Screen Phase II: Construction | Hastings Island Land Company | Delta | \$271,250 |
| Suisun Marsh Screening Project | Suisun Resources Conservation District | Suisun Marsh | \$900,000 |
| Hastings Tract fish screen feasibility study | Hastings Island Land Company | Delta | \$27,000 |
| Suisun Marsh Screening Project -Phase 2 | Suisun Resources Conservation District | Suisun Marsh | \$1,000,000 |
| Developing a Methodology to Accurately Simulate the Entrainment of Fish... | Department of Fish and Game | Delta | \$200,000 |
| Selected fish screens - Suisun Marsh | Department of Fish and Game | Suisun Marsh | \$2,935,600 |
| | | | <hr/> \$5,333,850 |

East Side Tributaries

| | | | |
|------------------------------------|--------------------------------|-----------------|-------------------|
| Woodbridge fish screen and passage | Woodbridge Irrigation District | Mokelumne River | \$1,575,000 |
| | | | <hr/> \$1,575,000 |

Landscape

| | | | |
|--------------------------------------|------|-----------|-----------------|
| Small Diversion Fish Screens Program | NRCS | Landscape | \$900,000 |
| | | | <hr/> \$900,000 |

Sacramento Mainstem

| | | | |
|---|------------------------------|------------------|-----------|
| Wilkins Slough diversion-RD 108 Intake screen feasibility study | Reclamation District No. 108 | Sacramento River | \$216,300 |
| Pelger Mutual Water Company: Small Fish Screen Evaluation | Pelger Mutual Water Company | Sacramento River | \$95,000 |

| | Applicant/Administrator | Watershed | Funded |
|--|-----------------------------------|--|---------------|
| Princeton fish screen (RD 1004) | Reclamation District 1004 | Sacramento River | \$4,969,000 |
| City of Sacramento Fish Screen Replacement Project Phase 2 | City of Sacramento | Sacramento River | \$654,500 |
| American Basin Fish Screen and Habitat Improvement Project | Natomas Mutual Water Company | Sacramento River | \$200,000 |
| Boeger Family Farms Fish Screen Phase III: Construction | Boeger Family Farms | Sacramento River | \$139,500 |
| RD 108 fish screen at Wilkins Slough Pumping Plant | Reclamation District 108 | Sacramento River | \$8,600,000 |
| Princeton Pumping Plant Fish Screen | Reclamation District No. 1004 | Sacramento River | \$325,000 |
| Princeton-Codora-Glenn/Provident Fish Screen Feasibility Study | PCG/Provident Irrigation District | Sacramento River | \$150,000 |
| Select fish screens on the Sacramento River and Tributaries | Department of Fish and Game | Sacramento River and Mill, Deer and Butte Creeks | \$597,250 |
| Princeton-Codora-Glenn/Provident Fish Screen Construct | PCG/Provident Irrigation District | Sacramento River | \$11,381,200 |
| Boeger Family Farm screen | Boeger Family Farms | Sacramento River | \$15,000 |
| Richter Brothers screen | Henry D. Richter, Jr. | Sacramento River | \$49,000 |
| Wilson Ranch fish screen | Deseret Farms of California | Sacramento River | \$200,000 |
| Gorrill Dam Fish screen and fish ladder | Gorrill Land Co. | Butte Creek | \$250,000 |
| Reclamation District 2035 Fish Screen | Reclamation District 2035 | Sacramento River | \$100,000 |
| | | | <hr/> |
| | | | \$27,941,750 |
| <i>Sacramento Tributaries</i> | | | |
| Gorrill Dam screen and ladder | Gorrill Land Company | Butte Creek | \$1,622,000 |
| M&T/Parrott Pump Relocation & Fish Screen | DU | Big Chico Creek and Sacramento River | \$4,694,000 |
| Yuba River-Browns Valley ID fish screen | BVID | Yuba River | \$346,000 |
| CNFH Water System Screening on Battle Creek | CVPIA: To be determined | Battle Creek | \$300,000 |
| Adams Dam Fish screen and fish ladder | Rancho Esquon Partners | Butte Creek | \$150,000 |
| Adams Dam screen and passage | Ducks Unlimited | Butte Creek | \$1,125,000 |

| | Applicant/Administrator | Watershed | Funded |
|--|---|---|--------------------|
| Battle Creek screens and fish passage | Department of Water Resources | Battle Creek | \$790,000 |
| Durham Mutual Dam Fish Screen & Ladder | Durham Mutual Water Company | Butte Creek | \$908,251 |
| | | | <hr/> \$9,935,251 |
| <i>San Joaquin Mainstem</i> | | | |
| Banta-Carbona fish screen | Banta-Carbona Irrigation District | San Joaquin River | \$3,914,750 |
| | | | <hr/> \$3,914,750 |
| <i>San Joaquin Tributaries</i> | | | |
| San Joaquin R. - Banta-Carbona ID Intake channel fish screen | Banta-Carbona Irrigation District | Stanislaus, Tuolumne, and Merced Rivers | \$2,016,750 |
| | | | <hr/> \$2,016,750 |
| | | | <hr/> \$51,617,351 |
| Fish passage | | | |
| <i>East Side Tributaries</i> | | | |
| Cosumnes River Salmonid Barrier Program | Fishery Foundation or California | Cosumnes River | \$188,255 |
| | | | <hr/> \$188,255 |
| <i>Landscape</i> | | | |
| Expanding California Salmon Habitat Through Non-governmental and Nonregulatory Mechanisms... | Institute for Fisheries Resources | Landscape | \$49,000 |
| | | | <hr/> \$49,000 |
| <i>Sacramento Mainstem</i> | | | |
| Fish Passage Improvement Project at the Red Bluff Diversion Dam | Tehama-Colusa Canal Authority | Sacramento River | \$340,600 |
| Anderson-Cottonwood Irrigation District fish passage | Anderson-Cottonwood Irrigation District | Sacramento River | \$375,000 |
| ACID Fish Passage and Fish Screen Improvement Project, Phase II | Anderson-Cottonwood Irrigation District | Sacramento River | \$860,000 |
| | | | <hr/> \$1,575,600 |

Applicant/Administrator**Watershed****Funded*****Sacramento Tributaries***

| | | | |
|--|-----------------------------------|----------------------|--------------|
| Drumheller Slough Exclusion Barrier Replacement & Upgrade on Butte Creek | CVPIA: To be determined | Butte Creek | \$200,000 |
| Saeltzer Dam fish passage | Townsend Flat Water Ditch Company | Clear Creek | \$538,200 |
| Sanborn Slough Bifurcation Passage Improvement | CVPIA: To be determined | Butte Creek | \$70,000 |
| Anadromous Fish Passage at Clough Dam on Mill Creek | Department of Water Resources | Sacramento Tributary | \$1,280,000 |
| Lower Butte Creek Restoration | TNC | Butte Creek | \$221,000 |
| Sutter Bypass Weir 1 Passage Improvement on Butte Creek | CVPIA: To be determined | Butte Creek | \$25,000 |
| Implement Phase 1b of Lower Butte Creek Fish Passage Study | CVPIA: To be determined | Butte Creek | \$243,000 |
| Parrot-Phelan Dam Fish Ladder | Wildlife Conservation Board | Butte Creek | \$418,000 |
| Sutter Bypass E-W Diversion Weir Passage Improvement on Butte Creek | CVPIA: To be determined | Butte Creek | \$25,000 |
| Butte Slough Outfall Engineering | CVPIA: To be determined | Butte Creek | \$25,000 |
| White Mallard Dam Passage Improvement on Butte Creek | CVPIA: To be determined | Butte Creek | \$50,000 |
| Sutter Bypass Wier 5 Passage Improvement on Butte Creek | CVPIA: To be determined | Butte Creek | \$50,000 |
| Sutter Bypass Wier 2 Passage Improvement on Butte Creek | CVPIA: To be determined | Butte Creek | \$25,000 |
| Iron Canyon Passage Improvement on Big Chico Creek | CVPIA: To be determined | Big Chico Creek | \$125,000 |
| Western Canal WD Butte Creek Siphon | WCWD | Butte Creek | \$9,457,621 |
| Sutter Bypass Weir 3 Passage Improvement on Butte Creek | CVPIA: To be determined | Butte Creek | \$25,000 |
| | | | <hr/> |
| | | | \$12,777,821 |

San Joaquin Mainstem

| | | | |
|---|-----------------------------|-------|-----------|
| Adult Fall-Run Chinook Salmon Movement in the lower San Joaquin River and south Delta | Department of Fish and Game | Delta | \$285,000 |
|---|-----------------------------|-------|-----------|

| | Applicant/Administrator | Watershed | Funded |
|---|--|----------------------|--------------------|
| | | | <hr/> \$285,000 |
| South Bay | | | |
| Steelhead and Chinook Salmon Fish Passage Barrier Remediation on the Guadalupe River | Natural Hertiage Institute et.al. | Guadalupe River | \$178,200 |
| | | | <hr/> \$178,200 |
| | | | <hr/> \$15,053,876 |
| Floodplain/Marsh restoration | | | |
| Delta/Suisun Marsh | | | |
| Prospect Island Monitoring Plan | DWR | Delta | \$35,000 |
| Fern-Headreach Tidal Pernnial Aquatic and Shaded River Aquatic Conservation Project | Thomas Luckey (L & L Farms, LLC) | Delta | \$425,000 |
| Prospect Island Restoration | DWR | Delta | \$9,150,000 |
| Hill Slough West Habitat Demonstration Project | Department of Fish and Game, Bay-Delta and Special Water Project Division | Suisun Marsh and Bay | \$200,000 |
| Cache Slough Habitat Enhancement | Reclamation District 2060 | Delta | \$85,000 |
| Rhode Island Floodplain Management and Habitat Restoration | Department of Fish and Game | Delta | \$25,000 |
| | | | <hr/> \$9,920,000 |
| East Side Tributaries | | | |
| Cosumnes River Acquisition, Restoration, Planning and Demonstration | The Nature Conservancy | Cosumnes River | \$750,000 |
| Cosumnes Preserve (Valensin Acquisition) | TNC | Cosumnes River | \$12,000,000 |
| Stone Lakes NWR Land Acquisitions | US Fish and Wildlife Service, Sacramento Realty Office | Cosumnes River | \$1,900,000 |
| Cosumnes floodplain acquisition and restoration | Wildlife Conservation Board, The Nature Conservancy | Cosumnes River | \$18,508,300 |
| | | | <hr/> \$33,158,300 |
| Landscape | | | |
| Develop Central Valley wide floodplain property acquisition criteria | CVPIA: To be determined | Landscape | \$20,000 |

| | Applicant/Administrator | Watershed | Funded |
|---|--|----------------------|-------------------|
| Habitat Restoration/Flood Control Bypasses Program | USCOE | Landscape | \$1,200,000 |
| | | | <hr/> \$1,220,000 |
| North Bay | | | |
| South Napa River Tidal Slough and Floodplain Restoration Project | City of American Canyon | North Bay | \$1,455,000 |
| Biological Restoration and Monitoring in the Suisun Marsh/North San Francisco Bay Ecological Zone | California State University Hayward | Suisun Marsh and Bay | \$772,667 |
| South Napa River Wetlands Acquisition and Restoration Program | Napa County Land Trust | Napa River | \$431,000 |
| Tolay Creek restoration | Ducks Unlimited | Tolay Creek | \$705,000 |
| Cullinan Ranch restoration | Ducks Unlimited | North Bay | \$1,030,500 |
| Hamilton wetland restoration | San Francisco BCDC & California Coastal Conservancy | North Bay | \$2,324,015 |
| Benicia Waterfront Marsh Restoration | City Of Benicia | Suisun Marsh and Bay | \$59,000 |
| San Francisco Bay Area wetlands ecosystem goals project | US EPA | North Bay | \$276,000 |
| South Napa River wetlands acquisition and restoration | Napa County Land Trust | Napa River | \$1,000,000 |
| Petaluma Marsh Expansion Project - Marin County | Marin Audubon Society | Petaluma Marsh | \$352,135 |
| | | | <hr/> \$8,405,317 |
| Sacramento Mainstem | | | |
| Foodplain Acquisition, Management, and Monitoring on the Sacramento River | The Nature Conservancy, Wildlife Conservation Board, and others. | Sacramento River | \$1,000,000 |
| Chicory Bend habitat acquisition on Sacramento River | CVPIA: To be determined | Sacramento River | \$150,000 |
| Meanderbelt economics study: Glenn County | CVPIA: To be determined | Sacramento River | \$14,839 |
| Meanderbelt economics study: Glenn Co. | CVPIA: To be determined | Sacramento River | \$10,000 |
| Millar Farms Inc. easement acquisition in Glenn County | CVPIA: To be determined | Sacramento River | \$167,000 |
| | | | <hr/> \$1,341,839 |

| Applicant/Administrator | | Watershed | Funded |
|--|---|------------------------|-------------|
| <i>Sacramento Tributaries</i> | | | |
| Battle Creek Restoration | CDFG | Battle Creek | \$500,000 |
| Acquire Simmons Ranch on Big Chico Creek | CVPIA: To be determined | Big Chico Creek | \$500,000 |
| New Clairvaux Abby property easement acquisition on Deer Creek | CVPIA: To be determined | Deer Creek | \$25,000 |
| Porter Property easement acquisition on Deer Creek | CVPIA: To be determined | Deer Creek | \$50,000 |
| Peek Property easement acquisition on Deer Creek | CVPIA: To be determined | Deer Creek | \$100,000 |
| Klinesteker Property easement acquisition on Mill Creek | CVPIA: To be determined | Mill Creek | \$25,000 |
| Riparian Habitat Restoration (sections of lower Mill Creek) | CVPIA: To be determined | Mill Creek | \$49,460 |
| Nelson Slough Wildlife Area Restoration Demonstration Project | Department of Fish and Game | Feather River | \$256,476 |
| Riparian Habitat Restoration (sections of lower Mill Creek) | CVPIA: To be determined | Mill Creek | \$49,460 |
| L&L and Gaumer Property easement acquisition on Deer Creek | CVPIA: To be determined | Deer Creek | \$118,061 |
| McAmis Property acquisition/restoration on Butte Creek | CVPIA: To be determined | Butte Creek | \$125,000 |
| Lower Clear Creek Floodway Restoration Project | Wester Shasta Resource Conservation District | Clear Creek | \$3,559,596 |
| Birkes Property easement acquisition along Mill Creek | CVPIA: To be determined | Mill Creek | \$136,952 |
| Latimer Property easement acquisition along Mill Creek | CVPIA: To be determined | Mill Creek | \$303,702 |
| Butte Creek Riparian Restoration Demonstration | Don Holtgrieve, Department of Geography and Planning, CSU Chico | Butte Creek | \$76,348 |
| Deer and Mill Creeks Acquisition and Enhancement | The Nature Conservancy | Deer Creek, Mill Creek | \$1,000,000 |
| Dana Property easement acquisition along Mill Creek | CVPIA: To be determined | Mill Creek | \$147,952 |
| | | | <hr/> |
| | | | \$7,023,007 |

Applicant/Administrator**Watershed****Funded*****San Joaquin Mainstem***

| | | | |
|---|---|-------------------|--------------------|
| Lower San Joaquin River Floodplain Protection and Restoration Project | US Fish and Wildlife Service, San Luis National Wildlife Refuge | San Joaquin River | \$1,100,000 |
| San Joaquin River floodplain acquisition and riparian restoration (SJR NWR) | USFWS | San Joaquin River | \$20,000,000 |
| | | | <hr/> \$21,100,000 |

San Joaquin Tributaries

| | | | |
|--|---|------------------|--------------------|
| Phase 3 - Merced River Salmon Habitat Enhancement | Department of Fish and Game | Merced River | \$2,433,759 |
| Merced River Ranch acquisition and restoration | Department of Fish and Game | Merced River | \$703,500 |
| Grayson River Ranch Perpetual Easement and Restoration | East Stanislaus RCD and Friends of the Tuolumne | Tuolumne River | \$732,000 |
| Tuolumne River channel restoration (Special Run Pool 9) | Turlock Irrigation District | Tuolumne River | \$3,055,100 |
| Merced River Restoration Planning | CVPIA: To be determined | Merced River | \$30,000 |
| Bear Creek floodplain restoration demonstration project (NLNWR) | USFWS | Bear Creek | \$414,000 |
| Grayson River Ranch easement acquisition/restoration on Tuolumne River | CVPIA: To be determined | Tuolumne River | \$377,200 |
| Tuolumne River setback levees and channel restoration (Mining Reach) | Turlock Irrigation District | Tuolumne River | \$6,363,000 |
| Mohler Property restoration/acquisition on Stanislaus River | CVPIA: To be determined | Stanislaus River | \$300,000 |
| | | | <hr/> \$14,408,559 |
| | | | <hr/> \$96,577,022 |

Introduced species***Delta/Suisun Marsh***

| | | | |
|-------------------------------------|---------------------------------|-------|-----------------|
| Introduced species research program | San Francisco Estuary Institute | Delta | \$197,000 |
| | | | <hr/> \$197,000 |

Applicant/Administrator**Watershed****Funded*****Landscape***

Exotic Species Control Program

USFWS

Landscape

\$1,250,000

\$1,250,000***North Bay***

Preventing exotic introductions from ballast water

UC Sea Grant Extension Program

North Bay

\$286,715

\$286,715

\$1,733,715**Population management*****Delta/Suisun Marsh***

Culture of Delta smelt

UC Davis

Delta

\$194,870

Salmon and Steelhead Otolith Study in Butte Creek

CVPIA: To be determined

Butte Creek

\$12,500

Yolo Bypass Habitat Restoration Study

DWR

Delta

\$256,000

Salmon and Steelhead Otolith Study

CVPIA: To be determined

Delta

\$12,500

North Delta area - survey of rearing habitat for juv. salmon

CSU Sacramento

Delta

\$24,500

\$500,370***East Side Tributaries***

Cosumnes River Preserve fish distribution and habitat use assessment

CVPIA: To be determined

Cosumnes River

\$30,000

\$30,000***Landscape***

Innovative fish screen for small unscreened diversions

Buell and Assoc.

Landscape

\$90,000

Molecular genetic identification of chinook salmon runs

UC Davis, Bodega Marine Lab

Landscape

\$1,050,000

Evaluation of tagging data

Northwest Marine Technology, Inc.

Landscape

\$625,000

Central Valley Steelhead genetic analysis

CVPIA: To be determined

Landscape

\$75,000

| | Applicant/Administrator | Watershed | Funded |
|--|---|--------------------------|-------------------|
| Fish Hatchery Review Program | To be determined | Landscape | \$250,000 |
| Fish Harvest Research Program | To be determined | Landscape | \$500,000 |
| | | | <hr/> \$2,590,000 |
| <i>Sacramento Mainstem</i> | | | |
| Sacramento River intermittent tribs habitat evaluation for juvenile chinook salmon | CVPIA: To be determined | Sacramento River | \$50,000 |
| Spawning areas of green sturgeon in the upper Sacramento River | US Fish and Wildlife Service | Sacramento River | \$60,801 |
| Winter-run salmon genetic analysis | CVPIA: To be determined | Sacramento River | \$200,000 |
| Biological Assessment of Green Sturgeon in the Sacramento-San Joaquin Watershed | Joseph Cech/University of California | Sacramento River | \$241,000 |
| Sacramento River Intermittent Tribs Habitat Evaluation For Juvenile Chinook Salmon | CVPIA: To be determined | Sacramento River | \$30,000 |
| Expansion of winter-run carcass survey on Sacramento River | CVPIA: To be determined | Sacramento River | \$20,500 |
| Expansion of Juvenile Salmon & Steelhead monitoring at RBDD | CVPIA: To be determined | Sacramento River | \$38,500 |
| Winter-Run Salmon Genetic Analysis | CVPIA: To be determined | Sacramento River | \$200,000 |
| Sac. River Winter-run Broodstock Program | Pacific Coast Federation of Fishermans Assoc. | Sacramento River | \$550,000 |
| Expansion of winter-run carcass survey on Sacramento River | CVPIA: To be determined | Sacramento River | \$21,000 |
| | | | <hr/> \$1,411,801 |
| <i>Sacramento Tributaries</i> | | | |
| Juvenile spring-run chinook salmon evalutation in Butte & Big Chico Creeks | CVPIA: To be determined | Butte & Big Chico Creeks | \$135,000 |
| Winter & spring-run salmon monitoring on Battle Creek | CVPIA: To be determined | Battle Creek | \$40,000 |
| Yuba River steelhead life history and status evaluation | CVPIA: To be determined | Yuba River | \$150,000 |
| Cow Creek habitat survey | CVPIA: To be determined | Cow Creek | \$15,000 |

| | Applicant/Administrator | Watershed | Funded |
|--|--------------------------------|---|-------------------|
| Cow Creek Habitat Survey | CVPIA: To be determined | Cow Creek | \$15,000 |
| Juvenile spring-run chinook salmon evaluation in Butte Creek | CVPIA: To be determined | Butte Creek | \$110,780 |
| Winter & spring-run salmon monitoring on Battle Creek | CVPIA: To be determined | Battle Creek | \$40,000 |
| Genetic comparison of stocks considered for re-establishing steelhead in Clear Creek | US Fish and Wildlife Service | Clear Creek | \$45,493 |
| Monitoring adult and juvenile spring and winter chinook salmon and steelhead in Battle Creek, CA | US Fish and Wildlife Service | Battle Creek | \$150,000 |
| Secret Ravine Habitat Survey, Tributary to Dry Creek | CVPIA: To be determined | Dry Creek | \$12,000 |
| Life History and Stock Composition of Steelhead Trout | Yuba County Water Agency | Yuba River | \$120,000 |
| | | | <hr/> \$833,273 |
| <i>San Joaquin Mainstem</i> | | | |
| Developing a genetic baseline for SJ Salmon | Department of Fish and Game | San Joaquin River | \$987,003 |
| | | | <hr/> \$987,003 |
| <i>San Joaquin Tributaries</i> | | | |
| San Joaquin Tributary spawning riffle atlas update and validation | CVPIA: To be determined | Stanislaus, Tuolumne, and Merced Rivers | \$42,500 |
| | | | <hr/> \$42,500 |
| | | | <hr/> \$6,394,947 |
| River geomorphology | | | |
| <i>Delta/Suisun Marsh</i> | | | |
| Sedimentation movement and availability and monitoring in the Delta | USGS | Delta | \$1,047,010 |
| Liberty Island acquisition | USFWS | Delta | \$8,577,000 |
| Sherman Island Levee Habitat Demonstration | DWR | Delta | \$960,000 |

| | Applicant/Administrator | Watershed | Funded |
|---|--|----------------------|--------------------|
| Predict evolution of ecological functions of diked wetlands | University of Washington | Delta | \$475,000 |
| Decker Island Tidal wetland enhancement | Port of Sacramento | Delta | \$399,000 |
| Martinez Regional shoreline restoration | East Bay Regional Park District | Suisun Marsh and Bay | \$392,375 |
| Twitchell Island restoration | Department of Water Resources | Delta | \$3,500,000 |
| Tyler Island levee protection and habitat restoration pilot project | Habitat Assessment & Restoration Team, Inc. | Delta | \$885,202 |
| Jepson Prairie restoration of SRA and perennial grasslands | Solano County Farmlands, Open Space Foundation | Delta | \$244,801 |
| In-channel island restoration/demonstration project | Association of Bay Area Governments | Delta | \$361,270 |
| Bay Point shoreline restoration plan | East Bay Regional Park District | Suisun Marsh and Bay | \$238,900 |
| Franks Tract wetlands habitat restoration | Moffatt and Nichol Engineers, DPR, DWR | Delta | \$601,500 |
| | | | <hr/> \$17,682,058 |
| <i>East Side Tributaries</i> | | | |
| Mokelumne River setback levee and habitat restoration | Reclamation District 2110 | Mokelumne River | \$365,000 |
| Mokelumne River spawning gravel evaluation | CVPIA: To be determined | Mokelumne River | \$25,000 |
| Mokelumne River gravel replenishment and cleansing | CVPIA: To be determined | Mokelumne River | \$58,500 |
| | | | <hr/> \$448,500 |
| <i>Landscape</i> | | | |
| Sediment Management Program | To be determined | Landscape | \$500,000 |
| | | | <hr/> \$500,000 |
| <i>Sacramento Mainstem</i> | | | |
| Sacramento River floodplain acquisition - natural process restoration (SB 1086) | Wildlife Conservation Board, USFWS, The Nature Conservancy | Sacramento River | \$9,879,800 |
| Sacramento River meander belt restoration project (SB 1086) | The Nature Conservancy | Sacramento River | \$898,700 |

| | Applicant/Administrator | Watershed | Funded |
|--|--|------------------|---------------|
| Sacramento River floodplain acquisition - Active Riparian Forest Restoration (SB 1086) | Wildlife Conservation Board, USFWS, The Nature Conservancy | Sacramento River | \$3,292,500 |
| Sac. River Habitat Restoration (Colusa-Verona) | Wildlife Conservation Board | Sacramento River | \$560,000 |
| Sac. River Restoration (Verona-Collinsville) | DWR and The Reclamation Board | Sacramento River | \$1,000,000 |
| Keswick Spawning Gravel Restoration | CDFG | Sacramento River | \$52,500 |
| Watershed management planning - Upper Sacramento River (SB 1086) | Department of Water Resources | Sacramento River | \$200,000 |
| | | | <hr/> |
| | | | \$15,883,500 |
| <i>Sacramento Tributaries</i> | | | |
| Yuba River Goldfield Barrier Preliminary Engineering Evaluation | CVPIA: To be determined | Yuba River | \$50,000 |
| Sacramento River and major trib. corridor mapping | CSU Chico | Sacramento River | \$145,200 |
| Fluvial Geomorphology Study at Mill Creek | CVPIA: To be determined | Mill Creek | \$27,703 |
| Lower Mill Creek riparian restoration | Mill Creek Conservancy, The Nature Conservancy | Mill Creek | \$238,400 |
| Butte Creek acquisition and riparian restoration | CSU Chico | Butte Creek | \$446,128 |
| Cottonwood Creek channel restoration | Graham Matthews & Associates | Cottonwood Creek | \$71,000 |
| Expansion of Butte Creek Geomorphic Study to Butte Slough | CVPIA: To be determined | Butte Creek | \$31,850 |
| | | | <hr/> |
| | | | \$1,010,281 |
| <i>San Joaquin Tributaries</i> | | | |
| Knights Ferry Gravel replenishment | Carl Mesick Consultants | Stanislaus River | \$626,410 |
| TRTAC Monitoring Efforts, and Peer Review | CVPIA: To be determined | Tuolumne River | \$25,000 |
| Tuolumne River Mining Reach Restoration | CVPIA: To be determined | Tuolumne River | \$1,310,200 |
| Gravel Replacement (Basso Bridge) | Department of Fish and Game | Tuolumne River | \$273,075 |
| TRTAC Monitoring Efforts, Peer Review | CVPIA: To be determined | Tuolumne River | \$15,000 |
| Basso Bridge land acquisition | Department of Fish and Game | Tuolumne River | \$172,500 |
| Stanislaus River channel restoration at the Willms Site | Department of Fish and Game, Department of Water Resources | Stanislaus River | \$3,675,897 |
| | CVPIA: To be determined | Stanislaus River | \$1,038,000 |

| | Applicant/Administrator | Watershed | Funded |
|--|--------------------------------|------------------|--------------------|
| Ruddy Mining Reach restoration on the Tuolumne River | CVPIA: To be determined | Tuolumne River | \$1,370,000 |
| Robinson /Ratzlaff Reach Habitat Enhancement (lower Western Stone Segment) on the Merced River | CVPIA: To be determined | Merced River | \$125,000 |
| Ratzlaff Reach Habitat Restoration on Merced River | CVPIA: To be determined | Merced River | \$250,000 |
| | | | <hr/> \$8,881,082 |
| | | | <hr/> \$44,405,421 |

Water management

East Side Tributaries

| | | | |
|---|-------------------------|----------------|-----------------|
| Hydrologic Model Development for Cosumnes River | CVPIA: To be determined | Cosumnes River | \$300,000 |
| | | | <hr/> \$300,000 |

Landscape

| | | | |
|---|-------------------------|---------------------------------------|--------------------|
| Sacramento, American, & Merced River flow studies | CVPIA: To be determined | Sacramento, American, & Merced Rivers | \$430,000 |
| Basis Develop for Water Acquisition Program | CVPIA: To be determined | Landscape | \$150,000 |
| Water Acquisition Program | To be determined | Landscape | \$14,500,000 |
| Sacramento, American, & Merced River flow studies | CVPIA: To be determined | Sacramento, American, & Merced Rivers | \$500,000 |
| | | | <hr/> \$15,580,000 |

Sacramento Tributaries

| | | | |
|--|-------------------------|------------|--------------------|
| Yuba River Basin Water Temperature Model | CVPIA: To be determined | Yuba River | \$5,000 |
| | | | <hr/> \$5,000 |
| | | | <hr/> \$15,885,000 |

Water quality

Delta/Suisun Marsh

| | | | |
|--|------|-------|-------------|
| Evaluation of selenium sources, levels and consequences in the Delta | USGS | Delta | \$2,779,655 |
|--|------|-------|-------------|

| | Applicant/Administrator | Watershed | Funded |
|---|--------------------------------|------------------|-------------------|
| Effects of wetlands restoration on methyl mercury levels | UC Davis | Delta | \$546,171 |
| Contaminant effects on smelt | UC Davis | Delta | \$437,000 |
| Monitoring of Delta contaminants | San Francisco Baykeeper | Delta | \$120,000 |
| Impacts of Pesticides on Aquatic Invertebrates in the Delta Program | To be determined | Delta | \$1,500,000 |
| Integrated Pest Management in Suisun Bay Project | USBR | Suisun Bay | \$266,000 |
| | | | <hr/> \$5,648,826 |

Landscape

| | | | |
|---|---|----------------------------------|-------------------|
| Baseline Pesticide Monitoring Program | To be determined | Landscape | \$500,000 |
| Assessment of organic matter in the habitat and its relationship to the food chain | USGS | Landscape | \$1,400,000 |
| Biologically Integrated Orchard Systems (BIOS) - pesticide and fertilizer reduction | Community Alliance with Family Farmers | Sacramento and San Joaquin River | \$1,680,631 |
| Evaluation of alternative pesticide use reduction practices for diazinon and chlorpyrifos | UC Davis | Landscape | \$1,704,608 |
| Effects of toxics on Central Valley chinook salmon | Fox Environmental Management | Landscape | \$110,000 |
| Chronic Fish Impairment Studies Program | To be determined | Landscape | \$700,000 |
| Algal Toxicity Program | To be determined | Landscape | \$500,000 |
| Water Quality Criteria for Chlorpyrifos Program | DFG | Landscape | \$100,000 |
| Biol. Integrated Orchard Systems Program | Community Alliance with Family Farmers Foundation | Landscape | \$660,000 |
| | | | <hr/> \$7,355,239 |

Sacramento Mainstem

| | | | |
|---|---------------------------------------|------------------|-------------------|
| Assessment and implementation of urban use reduction of diazinon and chlorpyrifos (Sacramento County) | Sacramento Area Stormwater Permittees | Sacramento River | \$856,500 |
| Fathead Minnow Toxicity in the Sacramento River Program | To be determined | Sacramento River | \$400,000 |
| | | | <hr/> \$1,256,500 |

Applicant/Administrator**Watershed****Funded*****Sacramento Tributaries***

| | | | |
|---------------------------------------|---|--------------|-------------------|
| Sand and Salt Creek watershed project | Colusa County Resources Conservation District | Colusa Basin | \$2,107,000 |
| | | | <hr/> \$2,107,000 |

San Joaquin Mainstem

| | | | |
|---|-------------------------------|-------------------|--------------------|
| San Joaquin River real-time water quality management program | Department of Water Resources | San Joaquin River | \$932,000 |
| Improvement of Water Quality in the Webber Point Area of Stockton Channel | San Joaquin County | Stockton Channel | \$475,000 |
| Bacterial treatment of selenium (Panoche Drainage) | UC Berkeley | San Joaquin River | \$1,149,000 |
| | | | <hr/> \$2,556,000 |
| | | | <hr/> \$18,923,565 |

Watershed management***Delta/Suisun Marsh***

| | | | |
|--|---|---------------|-----------------|
| Watershed Restoration Strategy for the Yolo Bypass | Yolo Basin Foundation, Inc. | Yolo Bypass | \$244,188 |
| Alhambra Creek Watershed CRMP Program | Contra Costa Resource Conservation District | Suisun Marsh | \$138,500 |
| Barker Slough Watershed Management Project | Solano County Water Agency | Barker Slough | \$580,000 |
| | | | <hr/> \$962,688 |

East Side Tributaries

| | | | |
|--|---|---------------------------|-------------------|
| El Dorado County Watershed Improvement 2000 | El Dorado County Resources Conservation District | North Fork Cosumnes River | \$973,448 |
| Willow Creek Watershed Restoration Project | Madera County Environmental Health Department | Willow Creek | \$502,258 |
| Inventory of forest road systems, Cat Creek watershed | USDA Forest Service | Cosumnes River | \$38,000 |
| Cosummes River Task Force - Watershed Planning | Sacramento County Resources Conservation District (in cooperation w/Cosummes River Task Force, Sacto Co.) | Cosumnes River | \$83,400 |
| Proposal to Develop Local Watershed Stewardship Plan for the Lower Mokelumne River | San Joaquin County Resource Conservation District | Mokelumne River | \$159,000 |
| | | | <hr/> \$1,756,106 |

Applicant/Administrator**Watershed****Funded*****Landscape***

Watershed Leader funding for "Working at a Watershed Level"

CVPIA: To be determined

Landscape

\$63,500

\$63,500

North Bay

Local Watershed Stewardship: Steelhead Trout Plan

Friends of Corte Madera Creek Watershed

Corte Madera Creek

\$47,500

Napa River watershed stewardship

Napa County Resource Conservation District

Napa River

\$456,000

Sonoma Creek watershed restoration

Southern Sonoma County Resource Conservation District

Sonoma Creek

\$300,000

Petaluma River Watershed Restoration Program

Southern Sonoma County Resource Conservation District

Petaluma River

\$220,000

\$1,023,500

Sacramento Mainstem

Butte Creek - Watershed management strategy

CSU Chico

Butte Creek

\$166,000

\$166,000

Sacramento Tributaries

Yuba Watershed Protection/Restoration Project

Yuba County

Yuba River

\$999,000

Watershed Plan Big Chico Creek

Big Chico Creek Watershed Alliance, CSU Chico

Big Chico Creek

\$422,830

Cache Creek Erosion and Sediment Control Demonstration Program

Yolo County Public Works and Planning Department

Cache Creek

\$1,000,000

Glenn County Watershed Management Plan and Education Program

Glenn County

Stony Creek

\$459,000

Middle Creek Ecosystem Restoration Project

Lake County Flood Control & Water Conservation District

Clear Lake

\$495,000

Fall River Restoration Project

Fall River Resources Conservation District Shasta County

Fall River

\$500,000

Deer Creek Watershed Program Phase II Implementation

Vina Resources Conservation District Tehama County

Deer Creek

\$607,763

Yuba River Watershed Management Strategy Development

CVPIA: To be determined

Yuba River

\$50,000

Watershed Plan Deer Creek

Deer Creek Watershed Conservancy, CSU Research Foundation

Deer Creek

\$427,554

| | Applicant/Administrator | Watershed | Funded |
|---|---|------------------|---------------|
| Upper Pit River Watershed Enhancement and Protection Project | Central Modoc Resources Conservation District | Pit River | \$500,000 |
| Butte Creek Watershed Management Strategy Development | CVPIA: To be determined | Butte Creek | \$131,866 |
| Battle Creek Watershed Planning Development | CVPIA: To be determined | Battle Creek | \$10,000 |
| Butte Sink/Sutter bypass stakeholder coordination | CVPIA: To be determined | Butte Creek | \$50,000 |
| Dry Creek Watershed Management Strategy Development | CVPIA: To be determined | Dry Creek | \$20,000 |
| American River Integrated Watershed Stewardship Strategy | Placer County Resource Conservation District | American River | \$220,750 |
| Butte Creek watershed | CSU Chico | Butte Creek | \$294,000 |
| Cottonwood Creek Watershed Group Formation | Cottonwood Creek Watershed Group | Cottonwood Creek | \$161,000 |
| Battle Creek Watershed Stewardship | Battle Creek Watershed Conservancy | Battle Creek | \$145,000 |
| South Yuba River Coordinated Watershed Management Plan | Department of Parks and Recreation | Yuba River | \$264,000 |
| Watershed Restoration Planning (M and N Fork American River, Auburn Ravine, Coon Creek) | Placer County | American River | \$445,060 |
| Coordinated American River Watershed Health Improvement & Monitoring Project | Placer County | American River | \$1,000,000 |
| Sulphur Creek Coordinated Resource Management Planning Group | Sacramento Watersheds Action Group | Sulphur Creek | \$23,828 |
| Lower Putah Creek Watershed Stewardship Program | Solano County, Department of Environmental Management | Putah Creek | \$100,500 |
| Battle Creek Restoration Chinook and Steelhead Study | William Kier and Assoc. | Battle Creek | \$230,000 |
| Clear Creek Property Acquisition | BLM | Clear Creek | \$422,000 |
| Battle Creek - Establish watershed conservancy | Western Shasta Resource Conservation Board | Battle Creek | \$100,000 |
| Indian Creek Watershed Project | Plumas County Department of Public Works | Feather River | \$1,000,000 |
| Union School Slough Watershed Improvement Program | Nation Audubon Society - California | Sacramento River | \$636,000 |
| Dry Creek Watershed Restoration, Miners Ravine Pilot Project & Water Quality Monitoring | Placer County Planning Department | Dry Creek | \$605,400 |

| | Applicant/Administrator | Watershed | Funded |
|--|--|------------------------------------|---------------------|
| Watershed improvements/sediment stabilization (Deer, Mill, Antelope Creeks) | US Forest Service | Deer, Mill, and Antelope Creeks | \$440,000 |
| | | | <hr/> \$11,760,551 |
| <i>San Joaquin Tributaries</i> | | | |
| Stockton Creek Watershed: locally led conservation | Mariposa County Resources Conservation District | Stockton Creek | \$389,232 |
| Merced River Corridor Restoration Plan | Stillwater Sciences & Merced Co. Planning & Comm. Develp. Dept. | Merced River | \$300,000 |
| Merced River Restoration Planning | CVPIA: To be determined | Merced River | \$40,000 |
| | | | <hr/> \$729,232 |
| <i>South Bay</i> | | | |
| Cold Water Fisheries and Water Quality Element | City of San Jose-Environmental Services Department | Santa Clara Basin | \$200,000 |
| | | | <hr/> \$200,000 |
| | | | <hr/> \$16,661,577 |
| | | | <hr/> \$267,689,914 |